

# United States Patent [19]

Hiroyoshi

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[54] **CARDIOVASCULAR PROSTHESIS**

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[58] Field of Search ..... **623/1**

[56] **References Cited**

## U.S. PATENT DOCUMENTS

3,327,705 6/1967 Miller et al. .... 128/165

4,189,546	2/1980	Deichert .....	623/1
4,208,506	6/1980	Deichert .....	623/1
4,219,520	8/1980	Kline .....	623/1
4,254,180	3/1981	Kline .....	623/1

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[57] **ABSTRACT**

In a cardiovascular prosthesis, at least a part of blood contact surface of the prosthesis is formed by polymer composition comprising water soluble polymer such as heparin and crosslinked polysiloxane, at least a part of the water soluble polymer being entangled or inter-twisted into polysiloxane networks.

**11 Claims, No Drawings**